

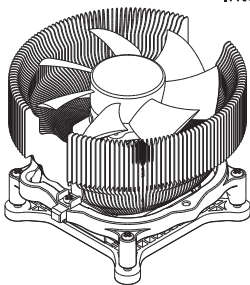
User's Manual

(English version)

CNPS7000C-Cu/AICu

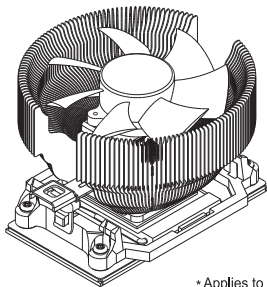
Intel Socket 775 CPU

Core 2 Duo
Pentium 4
Celeron D



AMD Socket AM2/754/939/940 CPU

Athlon 64
Athlon 64 X2 Dual-Core
Sempron



* Applies to all versions of CNPS7000C LED.

* Please read before installation.

<http://www.zalman.com>

1. Precautions

- 1) Please refer to "Compatible CPUs" on page 3 to confirm that your CPU is compatible with the CNPS7000C before installing.
- 2) Check the components list and condition of the product before installation. If any problem is found, contact the retailer.
- 3) Excessive force exerted on the fan may damage the fan, resulting in damage to the system.
- 4) Avoid inserting any objects into the fan while it is in operation.
- 5) Use and keep the product away from the reach of children.
- 6) Do not ingest the Thermal Grease and avoid its contact with eyes and skin. In case of bodily contact wash off with water, and if ingested, seek the advice of a doctor.
- 7) To prevent possible injuries or accidents please wear gloves while handling this product.

Disclaimer) ZalmanTech Co., Ltd. is not responsible for any damages due to external causes, including but not limited to, improper use, problems with electrical power, accident, neglect, alteration, repair, improper installation, or improper testing.

2. Features

- 1) Does not generate noise or vibration in Silent Mode.
- 2) Pure copper and/or pure aluminum base materials ensure excellent heat dissipation.
- 3) Compatible with single and dual core CPUs for Intel Socket 775 and AMD Sockets AM2/754/939/940.
- 4) 92mm fan inside the heatsink maximizes airflow.
- 5) Adjustable fan speed controller(Fan Mate 2) enables control of noise and fan performance.

3. Specifications

1) Cooler

Spec. \ Model	CNPS7000C-Cu	CNPS7000C-AICu
Heatsink Material	Pure copper	Pure copper and pure aluminum
Weight	750g ⁽¹⁾	434g
Dimensions	109(L) x 107(W) x 63(H) mm	
Heat Dissipation Area	2,890 cm ²	
Bearing Type	2 Ball-Bearing	
Rotation Speed	1,350rpm $\pm$ 10% ~ 2,400rpm $\pm$ 10% ⁽²⁾	
Noise Level	17.0dBA $\pm$ 10% ~ 24.0dBA $\pm$ 10% ⁽³⁾	
Input Voltage	12V	

2) Fan Mate 2

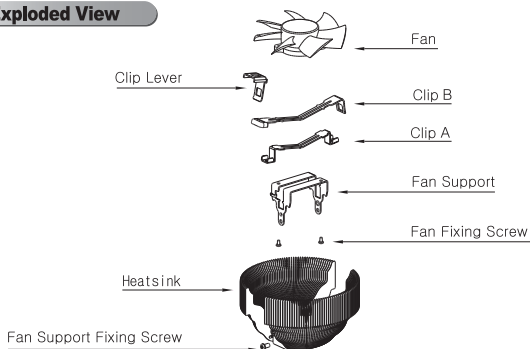
- Output Voltage : 5V ~ 11V $\pm$ 2 %
- Power Consumption : 6W or lower

Note 1) The maximum weight for a cooler is specified as 450g for Intel Socket 775 and AMD Socket AM2/754/939/940. Special care should be taken when moving a computer equipped with a cooler which exceeds the relevant weight limit. Zalman is not responsible for any damage that occur while moving a computer.

Note 2) The fan operates at 2,650rpm(27.5dBA $\pm$ 10%) if directly connected to the motherboard's power connector without the use of Fan Mate 2.

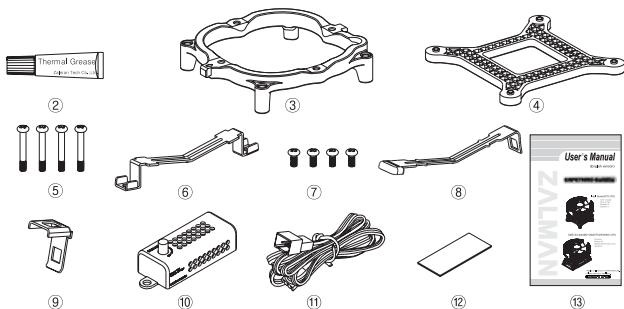
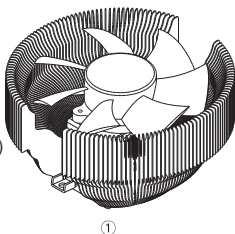
Note 3) Measured 1m distance away from source.

4. Exploded View



5. Components

- ① Cooler (CNPS7000C-Cu/AICu)
- ② Thermal Grease
- ③ Clip Support for Socket 775
- ④ Backplate for Socket 775
- ⑤ Clip Support Fixing Bolt (4 bolts)
- ⑥ Clip A
- ⑦ Installation Bolt (4 bolts)
- ⑧ Clip B
- ⑨ Clip Lever
- ⑩ Fan Speed Controller (Fan Mate 2)
- ⑪ Cable for Fan Mate 2
- ⑫ Double-Sided Tape (for Fan Mate 2 Attachment)
- ⑬ User's Manual (in English and Korean)



6. Compatible CPUs

1) Intel Socket 775 CPUs

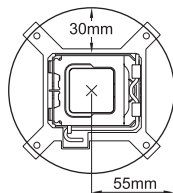
Core 2 Duo	Pentium 4		Celeron D
	Prescott	Cedar Mill	
All speeds	Up to 540	Up to 650	All speeds

2) AMD Socket AM2/754/939/940 CPUs

Athlon 64 FX	Athlon 64 X2	Athlon 64	Sempron
Up to 53	Up to 5600+	All speeds	All speeds

Caution)

No motherboard components with a height greater than 39mm, as well as the PSU, disk drives, VGA card, and RAM should be present within a 55mm radius from the center of the CPU.



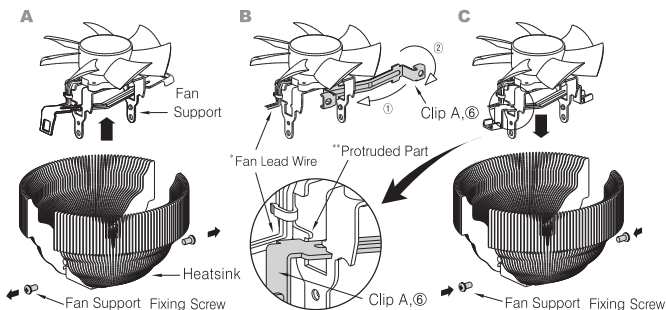
7. Installation(Intel Socket 775)

1) Clip Installation

Clip A(⑥) is installed in the factory so **INTEL socket users DO NOT have to exchange the Clip**. To re-install Clip A(⑥), adhere to the following instructions.



- Unfasten the Fan Support Fixing Screws and disassemble the Fan Support from the Heatsink.
- Insert Clip A(⑥) in the direction of the Fan Support's *Fan Lead Wire. Make sure the Clip is inserted under the **Protruded Part of the Fan Support.
- After installing the Fan Support onto the Heatsink, please secure with the Fan Support Fixing Screws(refer to the diagram below).



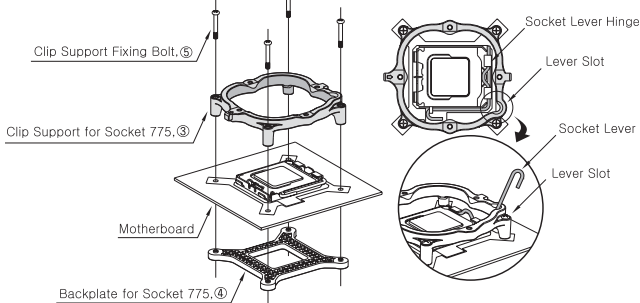
※ Please make sure that Clip A/B is installed correctly.

※ Do not exert excessive force on the fan during the installation for it may damage the fan.

2) Clip Support Installation

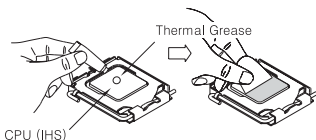
Align the Clip Support for Socket 775 (③) and the Backplate for Socket 775 (④) with the mounting holes on the motherboard and fasten them together with the Clip Support Fixing Bolt (⑤). The Lever Slot on the Clip Support for Socket 775 should be properly oriented on the hinged side of the Socket Lever when installing.

※ If the Lug of the Clip Support for Socket 775 interferes with any motherboard components, install the Clip Support for Socket 775 with the Lug facing a different direction to avoid interference.



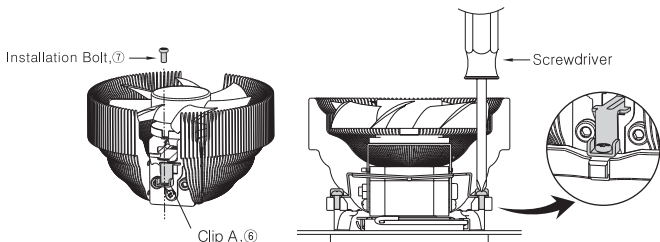
3) Thermal Grease Application

Clear off particles and any residue from the top of the CPU then spread an adequate amount of the included Thermal Grease (②) on the CPU surface thoroughly.



4) Cooler Installation

Set the Cooler at the center of the CPU. Screw the Installation bolts in slightly, then tighten each bolt a few turns at a time while alternating between the two until the clip support is completely pressed against the Clip.



5) Power Connection (Fan Mate 2 Connection)

◆ Please refer to Fan Mate 2 Installation and Usage on page 6.

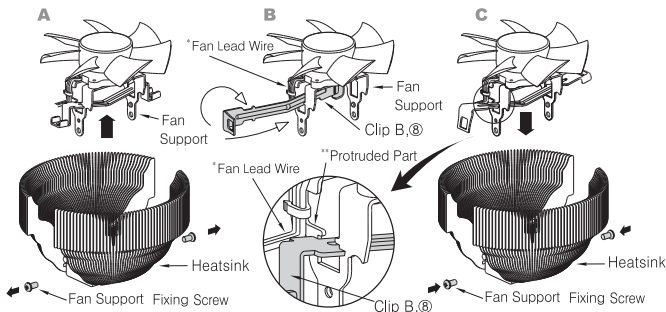
8. Installation (AMD sockets AM2/754/939/940)

1) Clip Installation

Clip A(⑥) is installed in the factory so **AMD socket users MUST remove Clip A and install Clip B(⑧)**. Adhere to the following instructions to change the clip.



- Unfasten the Fan Support Fixing Screws and disassemble the Fan Support from the Heatsink.
- Insert Clip B(⑧) in the direction of the Fan Support's *Fan Lead Wire. Make sure the Clip is inserted under the **Protruded Part of the Fan Support.
- After installing the Fan Support to the Heatsink, please secure with the Fan Support Fixing Screws (refer to the diagram below).

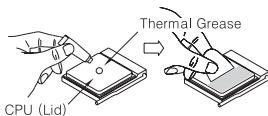


※ Please make sure that Clip A/B is installed correctly.

※ Do not exert excessive force on the fan during the installation for it may damage the fan.

2) Thermal Grease Application

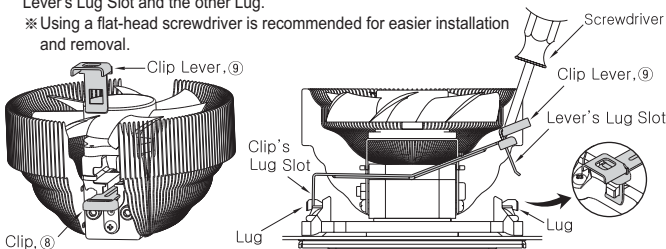
Clear off particles or any residue from the top of the CPU then spread a thin layer of the included Thermal Grease thoroughly on top of the CPU.



3) Cooler Installation

Insert the Clip Lever(⑨) into the Clip B(⑧). Connect the Clip's Lug Slot with a Lug of the Retention Frame on the motherboard. Press onto the Clip Lever(⑨) when aligning the Lever's Lug Slot and the other Lug.

※ Using a flat-head screwdriver is recommended for easier installation and removal.

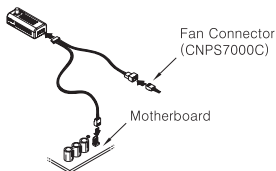


4) Power Connection (Fan Mate 2 Connection)

◆ Please refer to Fan Mate 2 Installation and Usage on page 6.

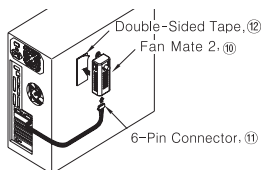
9. Fan Mate 2 Installation and Usage

1) Fan Mate 2 Installation on the Inside of a System



Connect the two 3-pin connectors of the cable to the motherboard and to the CNPS7000C's Fan Connector as shown in the diagram.

2) Fan Mate 2 Installation on the Outside of a System



Pull the 6-Pin Connector (13) out of the system through the back and connect it to Fan Mate 2 (11), which should be installed on the case using the included Double-Sided Tape (10).

◆ When the Speed Control Knob on Fan Mate 2 is turned counter-clockwise, fan speed is lowered. Turned clockwise, it is increased. Thus, you can select the desired fan speed by turning the knob.

Please adjust the fan speed to a desired setting. For CPU temperature specifications, please inquire to the CPU manufacturer.

Note) Fan Mate 2 has been specifically designed for the fan of this product.

ZalmanTech Co., Ltd. is not responsible for any damages to the system or CPU resulting from its use with other types of fans.

10. Notes on Usage

1) Caution During Booting

The computer system may automatically shut down when booting the computer after the system monitoring program outputs a warning stating that the CPU fan is rotating slowly. In such a case, fully turn the Speed Control Knob in the clockwise direction before rebooting to disable the 'CPU Fan Detected' option in BIOS, or set the CPU fan's rotational speed to 1,350rpm or lower in the system monitoring program.

Note) Some motherboards fail to boot if the rotational speed of the CPU fan is below a certain rpm. However, booting can be possible even at low fan rpm if the BIOS settings are updated. For more information on updating the BIOS, please refer to the website of the motherboard's manufacturer. There are motherboards which fail to detect the rpm while operating the cooler in Silent Mode, but this does not affect computing performance.

2) Overclocking

ZalmanTech Co., Ltd. is not responsible for any damages resulting from CPU Overclocking.

11. Zalman Computer Noise Prevention Systems

Zalman's Ultra Quiet Power Supplies, Fanless Northbridge Coolers, Heatpipe HDD Cooler, Ultra Quiet Case Fans, VGA Coolers, and Multi Fan Controllers facilitate stable performance and a noiseless computing environment.



Ultra Quiet Power Supply



Fanless Northbridge Cooler



Heatpipe HDD Cooler



Ultra Quiet Case Fan



Ultra Quiet VGA Cooler



Multi Fan Controller

12. TRIMON 2D/3D Convertible LCD Monitors



TRIMON series monitors are capable of fine 2D imaging and ultra clear stereoscopic 3D imaging, making it ideal for 3D games, movies, design, scientific research, and presentations.

For more information, please visit our website.

13. Versatile Tower Enclosure



The GS1000 enclosure features E-ATX / Standard ATX / microATX compatibility, up to 6 Hot Swap HDD Bays, tool-free HDD installation, airflow optimized design, the world's first roller rails for smooth & easy PSU installation, cable compartment behind the motherboard for cable management, dedicated fan compartment for fanless PSU users, and up to 8 HDD bays.

For more information, please visit our website.



Disposal of Old Electrical & Electronic Equipment
(Applicable in the European Union and European countries with separate collection systems)